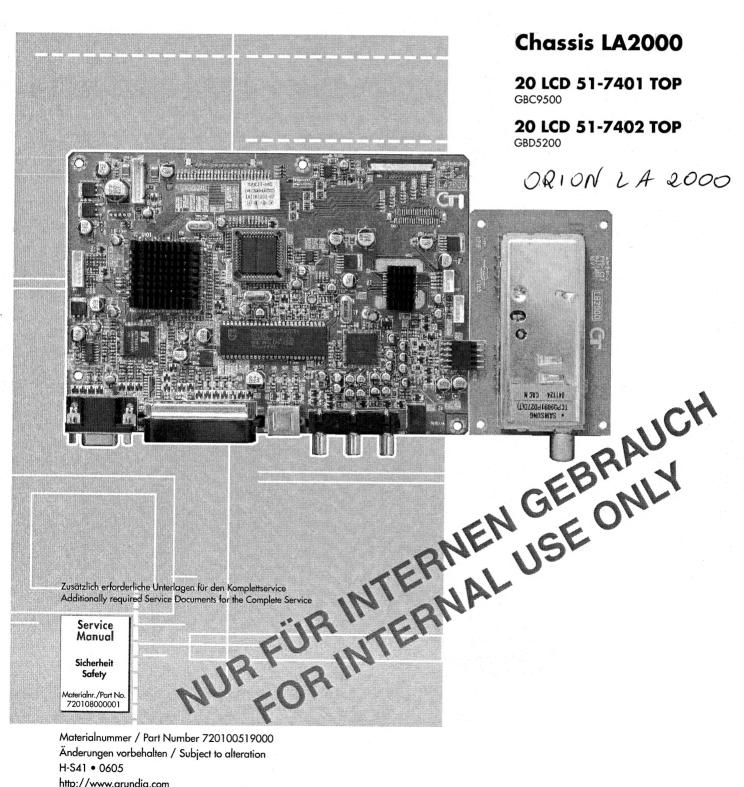
GRUNDIG

Service Manual



Materialnummer / Part Number 720100519000 Änderungen vorbehalten / Subject to alteration H-S41 • 0605 http://www.grundig.com

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Materialnummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!



The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 720108000001, as well as the respective national deviations.

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Allgemeiner Teil

Allgemeine Hinweise

Vor dem Öffnen des Gehäuses den Netzstecker ziehen!

Achtung: ESD-Vorschriften beachten 🦾



Leitungsverlegung

Bevor Sie die Leitungen und insbesondere die Masseleitungen lösen, muss die Leitungsverlegung zu den einzelnen Baugruppen beachtet

Nach erfolgter Reparatur ist es notwendig, die Leitungsführung wieder in den werkseitigen Zustand zu versetzen um evtl. spätere Ausfälle oder Störungen zu vermeiden.

Durchführen von Messungen

Bei Messungen mit dem Oszilloskop an Halbleitern sollten Sie nur Tastköpfe mit 10:1 - Teiler verwenden. Außerdem ist zu beachten, dass nach vorheriger Messung mit AC-Kopplung der Koppelkondensator des Oszilloskops aufgeladen sein kann. Durch die Entladung über das Messobjekt können Bauteile beschädigt werden.

Messwerte und Oszillogramme

Bei den in den Schaltplänen und Oszillogrammen angegebenen Messwerten handelt es sich um Näherungswerte!

General Section

General Notes

Before opening the cabinet disconnect the mains plug!

Attention: Observe the ESD safety regulations



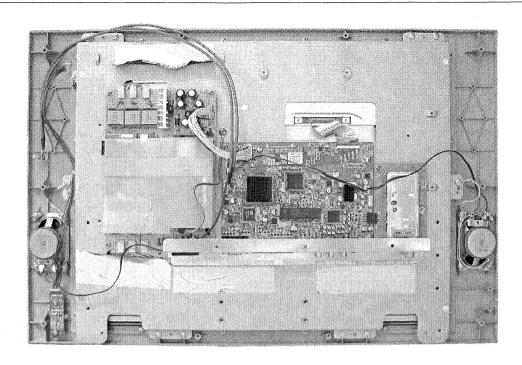
Before disconnecting any leads and especially the earth connecting leads observe the way they are routed to the individual assemblies. On completion of the repairs the leads must be laid out as originally fitted at the factory to avoid later failures or disturbances.

Carrying out Measurements

When making measurements on semi-conductors with an oscilloscope, ensure that the test probe is set to 10:1 dividing factor. If the previous measurement was made on AC input, please note that the coupling capacitor in the oscilloscope will be charged. Discharge via the item being checked can damage the components.

Measured Values and Oscillograms

The measured values given in the circuit diagrams and oscillograms are approximates!



Technische Daten / Technical Data

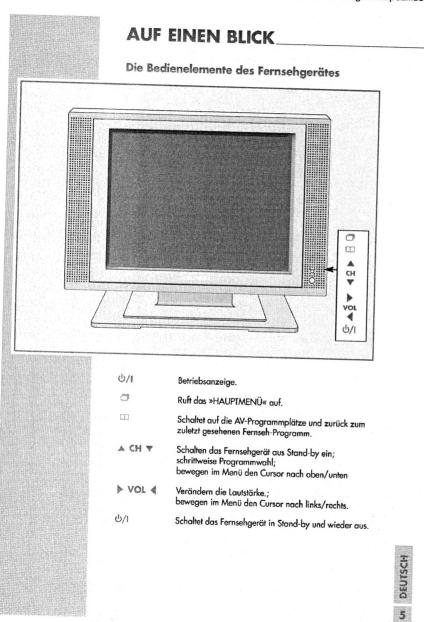
	20 LCD 51-7401 TOP	20 LCD 51-7402 TOP	
Order No.	G.BC 95-00	G.BD 52-00	
EAN	40 13833-59873 2	40 13833-60061 9	
Approbations	CE,C-TICK,ME67		
IM-Languages	D,GB,F,I,NL,DK,N,S,E		
Destination	D,A,CH,F,I,E,NL,	DK,FIN,N,S	
Remote control	RC 20	0	
Color	silver	silver/black	
Display	· · · · · · · · · · · · · · · · · · ·		
Panel	20" / 51 cm Clear Color Screen A	ctive Matrix TFT-LC-Display	
16:9 wide-screen format	0		
Panel driving technology	MVA		
Response time	ca. 16m	18	
Brightness	ca. 600cd	l/m2	
Contrast ratio	ca. 600	:1	
Viewing angle approx.	120° vertical / 160	0° horizontal	
Physical display resolution max. pixel	VGA 640 >		
PICTURE			
Digital Reference-Plus-Technology (Motion Adaption)			
Line Flicker Reduction	0		
Motion Adaptive Deinterlacing	0		
Digital Color Transition Improv. (DCTI)	•		
Digital Combfilter			
Digital Luminance Transition Improv. (DLTI)	0		
Picture Noise Reduction (DNR)	•		
CCS (Clear Color Screen)	•		
Preset picture modes	0		
Aspect ratios (Format switching)	0		
PIP	0		
Multifold Tuner scan (Mosaic Picture)	0		
PAT: Split screen (PICTURE + TEXT)	0		
PAP: Double Window (PICTURE + PICTURE)	0		
P2AT: Double window + TXT	0		
POP: PICTURE on PICTURE	0		
Picture freezing	0		
Zoom with point function	0		
Auto 16:9 selection via Scart	0		
Sharpness control			
Blue Background	0		
CHASSIS	1		
TV-Chassis	LA2000		
Progressive			
Tuner	PLL frequency synthesizer tuning		
Keyboard	7 keys: stand-by, menu, ± for programme, ± for volume, AV-programme (lateral)		

LikCTRONIC O PRO (Electron Programme Guide) PRO (Electron Programme Guide) PRO (Electron Programme Guide) PRO (Electron Programme Guide) Programme Guide) Programme Guide of timer Programme Electronic Guide of the Manager Guide of the		
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Telephonic proposes 10 pages		
Distillations One		
Month free recognition O March Increase O O		
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Hole mode	SWAP (Recall function)	0
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Automatic Programming		
Manual fine funing Manual fine funing		
Direct channels selection	Manual fine tuning	
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PRIVATION Prophect via Scart (3,58/4,43) PRIVATION PRIVAT	Direct frequency selection	
Cauda TV / Hyperband (SI-S41) ●	PAL/SECAM/BG/DK/I/L'/L	
Author		
MonoStereoNicam		
Mono/StreroNicam		
AV Stereo		0/0/0
Virtual Diably	Loudspeaker	2 wide band at the front side
Subwoofer	Virtual Dolby	0
Dynamic Bass	Matched Sound Delay (Lip synchronous)	
DSP (Digital Sound Processor)	Subwoofer	
Salance Adjustment		
AVE. (Audio Volume Level)		
Pile listening via Headphone.jack		
\$ 5 Band \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$		
Audio mode	Equalizer	●, 5 Band
Audio amplifier without extern LS 2 x 5 / 3.5W (music/nominal) 20WER SUPPLY / CABINET 70wer voltage Range of regulation 100-240V, 50/60Hz, in accordance to IEC 65 70wer switch □ mitegrated supply Yes 10g-in AC dasptor 70wer consumption 50W, stand-by < 5W Cabinet (WxHxD) 58,5 x 44 x 7cm (19cm with stand) 70wer solved AV1 70wer consumption 60 Sy, stand-by < 5W CVBS in-/output, Audio in/output , RGB input 70wer Socket AV2 70wer CVBS in-/output, Audio in/output , RGB input 70wer Socket AV3 70wer CVBS in-/output, Audio in/output , RGB input 70wer Socket AV3 70wer CVBS in-/output, Audio in/output , RGB input 70wer Socket AV3 70wer CVBS in-/output, Audio in/output , RGB input 70wer Socket AV3 70wer CVBS in-/output, Audio in/output , RGB input 70wer Socket AV3 70wer CVBS in-/output, Audio in/output , RGB input 70wer CVBS in-/output , RGB input 70wer CVBS in-/	Space Sound Effect	0
Power voltage	Audio mode	
Power voltage 230V Pange of regulation 100-240V, 50/60Hz, in accordance to IEC 65 Power switch ○ ○ ○ Power switch ○ ○ ○ Power switch ○ ○ ○ ○ Power switch ○ ○ ○ ○ Power consumption 50W, stand-by < 5W Zabinet (Wt-kt/D) 58,5 x 44 x 7cm (19cm with stand) Reap RANEL CONNECTIONS Euro-AV-Socket AV1 CVBS in-foutput, Audio infoutput, RGB input Euro-AV-Socket AV2 ○ ○ ○ Euro-AV-Socket AV3 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○		2 x 5 / 3.5W (music/nominal)
Range of regulation		2001/
Power switch O		
Plug-in AC adaptor		
Plug-in AC adaptor Power consumption Sow, stand-by < 5W Sok, x 44 x 7cm (19cm with stand) Neight Ca. 10kg BEAR PANEL CONNECTIONS Euro-AV-Socket AV1 CVBS in-/output, Audio in/output, RGB input Euro-AV Socket AV2 ○ Solvideo Yes, (Hosiden) Camera-AV Nireless ○ Ves, (Hosiden) Camera-AV Nireless ○ Yes, (Wultisync SVGA) PC-Input (Sub D 15) Yes, (Multisync SVGA) PC-Audio in Yes, 3,5mm jack Stereo DVI □ □DCP □ □DCP □ □HDMI □eadphones REAR PANEL CONNECTIONS Audio out Antenna for terrestrial reception □ Co-connector Power cord plug-in type SUPPLIED ACCESSORIES Remote cord □ Instruction manual □ Instruct		
Cabinet (WxHxD) 58,5 x 44 x 7cm (19cm with stand) Weight ca. 10kg REAR PANEL CONNECTIONS CVBS in-/output, Audio in/output , RGB input Euro-AV Socket AV2 O Euro-AV Socket AV3 O S-Video Yes, (Hosiden) Camera-AV Yes, 3x Cinch socket in Wireless O V/U input / progressive Yes, via Scart PC-Input (Sub D 15) Yes, (Multisync SVGA) PC-Audio in Yes, 3,5mm jack Stereo DVI O HDCP O HDM O Headphones O REAR PANEL CONNECTIONS Audio out O Anterna for terrestrial reception 1 x Coaxial-socket for TV-tuner-in, according to DIN 45325 Power supply plug Power cord plug-in type SUPPLIED ACCESSORIES Power cord Cower cord O Cower cord O Instruction manual O	Plug-in AC adaptor	
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REAR PANEL CONNECTIONS Euro-AV-Socket AV1 Euro-AV Socket AV2 O Euro-AV Socket AV3 S-Video Tyes, (Hosiden) Camera-AV Ves, 3x Ginch socket in Wireless O Vey, Was, Was Cart Ves,	Cabinet (WxHxD)	
Euro-AV-Socket AV1 Euro-AV Socket AV2 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Weight	ca. 10kg
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### Yes, via Scart	Camera-AV	
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PC-Audio in Yes, 3,5mm jack Stereo	YUV input / progressive	
DVI	PC-input (Sub D 15)	
HDCP O HDMI O HEADPHONES O HEAR PANEL CONNECTIONS Audio out of terrestrial reception O Antenna for terrestrial reception O C-connector O Power supply plug Power cord plug-in type SUPPLIED ACCESSORIES Remote control (incl. battery) O Power cord O Dables O Description O		
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Headphones REAR PANEL CONNECTIONS Audio out OAntenna for terrestrial reception 1 x Coaxial-socket for TV-tuner-in, according to DIN 45325 OC-connector OPower supply plug Power cord plug-in type SUPPLIED ACCESSORIES Remote control (incl. battery) Over cord Cables Onstruction manual	HDMI	
Audio out Antenna for terrestrial reception 1 x Coaxial-socket for TV-tuner-in, according to DIN 45325 Co-connector Cower supply plug SuPPLIED ACCESSORIES Remote control (incl. battery) Cower cord Cables Onstruction manual	Headphones	
Audio out Antenna for terrestrial reception 1 x Coaxial-socket for TV-tuner-in, according to DIN 45325 Co-connector Cower supply plug SuPPLIED ACCESSORIES Remote control (incl. battery) Cower cord Cables Onstruction manual	REAR PANEL CONNECTIONS	-
OC-connector Power supply plug Power cord plug-in type SUPPLIED ACCESSORIES Remote control (incl. battery) Power cord Cables Onstruction manual	Audio out	
Power supply plug Power cord plug-in type SUPPLIED ACCESSORIES Remote control (incl. battery) Power cord Cables Onstruction manual	Antenna for terrestrial reception	
BUPPLIED ACCESSORIES Remote control (incl. battery) Power cord Cables onstruction manual	DC-connector	
□ Emote control (incl. battery) □ □ Cower cord □ □ Cables □ nstruction manual □	Power supply plug	Power cord plug-in type
Power cord ● Cables ○ nstruction manual ●		
Cables nstruction manual •		
nstruction manual •		
	Circuit diagram	
	Wall fixture integrated	0

Bedienhinweise

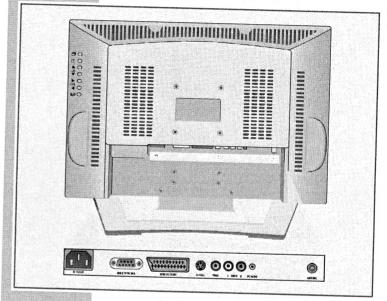
Dieses Kapitel enthält Auszüge aus der Bedienungsanleitung.

Weitergehende Informationen entnehmen Sie bitte der gerätespezifischen Bedienungsanleitung, deren Materialnummer Sie in der entsprechenden Ersatzteilliste finden.



AUF EINEN BLICK

Die Anschlüsse des Fernsehgerätes



Netzbuchse,

RGB-DTV	Bildeingangs-Buchse nach DTV-Standard
PC VGA	für analoge (RGB) Signale vom PC.

EURO AV/SCART Euro/AV-Buchse für DVD-Player, Videorecorder, Satellitenreceiver (RGB).

Bildeingangs-Buchse für DVD-Player, Videorecorder, Satellitenreceiver (S-Video). S-VIDEO

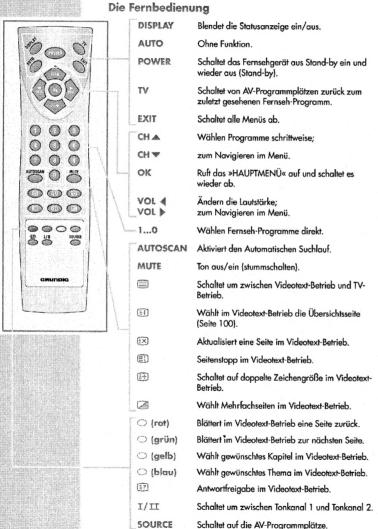
VIDEO Bildeingangs-Buchse für DVD-Player, Videorecor-

der, Satellitenreceiver,

L AUDIO R Stereo-Toneingangs-Buchsen PC AUDIO Toneingangs-Buchse für PC.

ANTENNA Antennenbuchse.

AUF EINEN BLICK



KOMFORT-FUNKTIONEN

Informationen abrufen

In diesem Menü können Sie sich über des Gerätes informieren.

- 1 »HAUPTMENÜ« mit »OK« aufrufen.
- Das »HAUPTMENÜ« wird eingeblendet.
- 2 Menüpunkt » To « (Info) mit » VOL » « oder » VOL ««
 - Die aktuellen Informationen werden eingeblendet.
- 3 Einstellung mit »OK« beenden.

Gerät in den Auslieferzustand schalten (Reset)

Alle persönlichen Kundeneinstellungen (z.B. Kontrast, Helligkeit, Lautstärke) werden in den Auslieferzustand zurück gesetzt. Fernseh-Programme werden nicht gelöscht.

- 1 »HAUPTMENÜ« mit »OK« aufrufen. - Das »HAUPTMENÜ« wird eingeblendet.
- · 2 Menüpunkt » ☆ « (Werkseinstellung) mit »VOL » « oder »VOL «« anwählen.
- 3 Zeile »Voreinstellung« mit »CH ▼ « oder »CH ▲ « wählen.
- Reset-Funktion mit »VOL » « bestätigen.
- 5 Einstellung mit »OK« beenden.



學 二雅 250 函 公 军

Navi. (.) - Beenden OK

O Voreinstellung



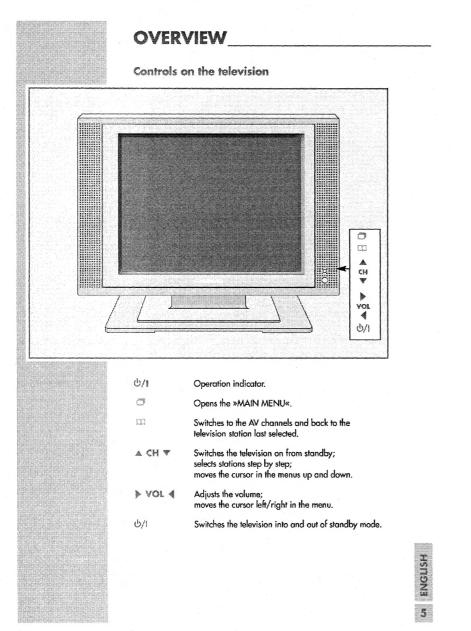


16

Operating Hints

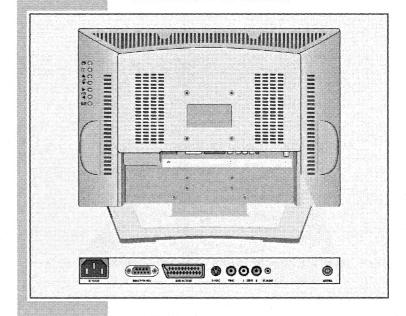
This chapter contains excerpts from the operating instructions.

For further particulars please refer to the appropriate user instructions the part number of which is indicated in the relevant spare parts list.



OVERVIEW

Connections on the television



AC POWER Mains socket.

RGB-DTV DTV standard video input socket, PC VGA For analogue (RGB) signals from a PC.

EURO AV/SCART Euro/AV (Scart) socket for DVD player,

video recorder, satellite receiver (RGB).

S-VIDEO Video input socket for DVD player, video recorder, satellite receiver (S-Video).

Video input socket for DVD player, video recorder,

satellite receiver.

L AUDIO R Stereo audio input sockets.

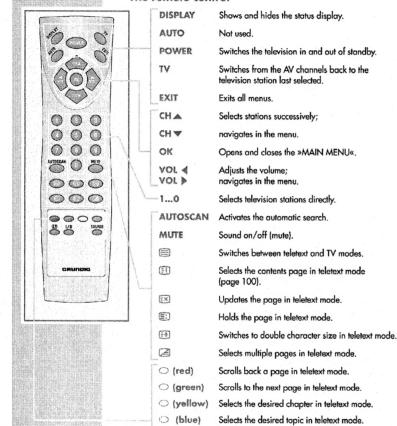
PC AUDIO Audio input socket for PC.

ANTENNA Antenna socket.

VIDEO

OVERVIEW

The remote control



(E7)

I/II

SOURCE

Reveals answers in teletext mode.

Switches to AV channels.

channel 2.

Switches between audio channel 1 and audio

CONVENIENCE FUNCTIONS

Calling up information

This menu provides you with information about the television.

- Press »OK« to open the »MAIN MENU«.
 - The »MAIN MENU« appears.
- 2 Select » ♥ « (Exit) by pressing » VOL ▶ « or » VOL ∢«. - The current information appears.
- 3 Press »OK« to finish the setting.

Resetting the device

All custom settings (for example, contrast, brightness and volume) are restored to the original status. Television stations are not deleted.

- 1 Press »OK« to open the »MAIN MENU«. - The »MAIN MENU« appears.
- 2 Select » ☆ « (Utility) by pressing »VOL ▶ « or »VOL ◀«.
- 3 Select »Recall« by pressing »CH ▼ « or »CH ▲ «.
- 4 Confirm the reset by pressing »VOL » «.
- 5 Press »OK« to finish the setting.



Move : (.). - Lxit : OK

Move: (.). - Exit: OK

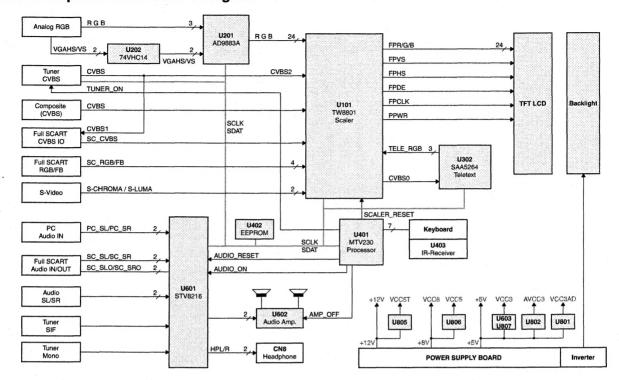
母 二 **非** 図 向 な エ

PAL 11: 15.7 kHz V 50.0 Hz



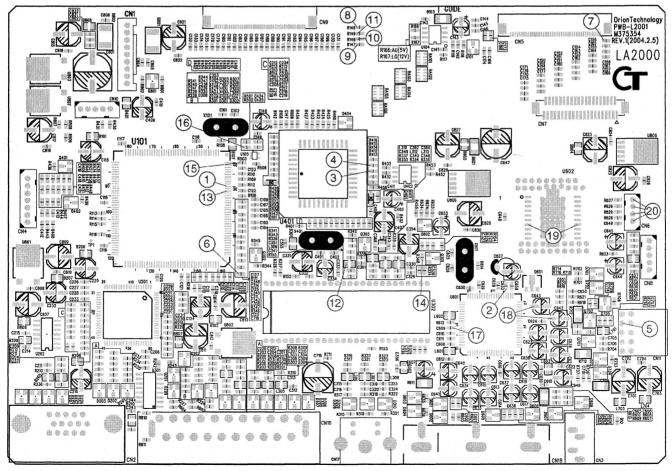
Platinenabbildungen und Schaltpläne / Layout of PCBs and Circuit Diagrams

Blockschaltplan / Block Circuit Diagram



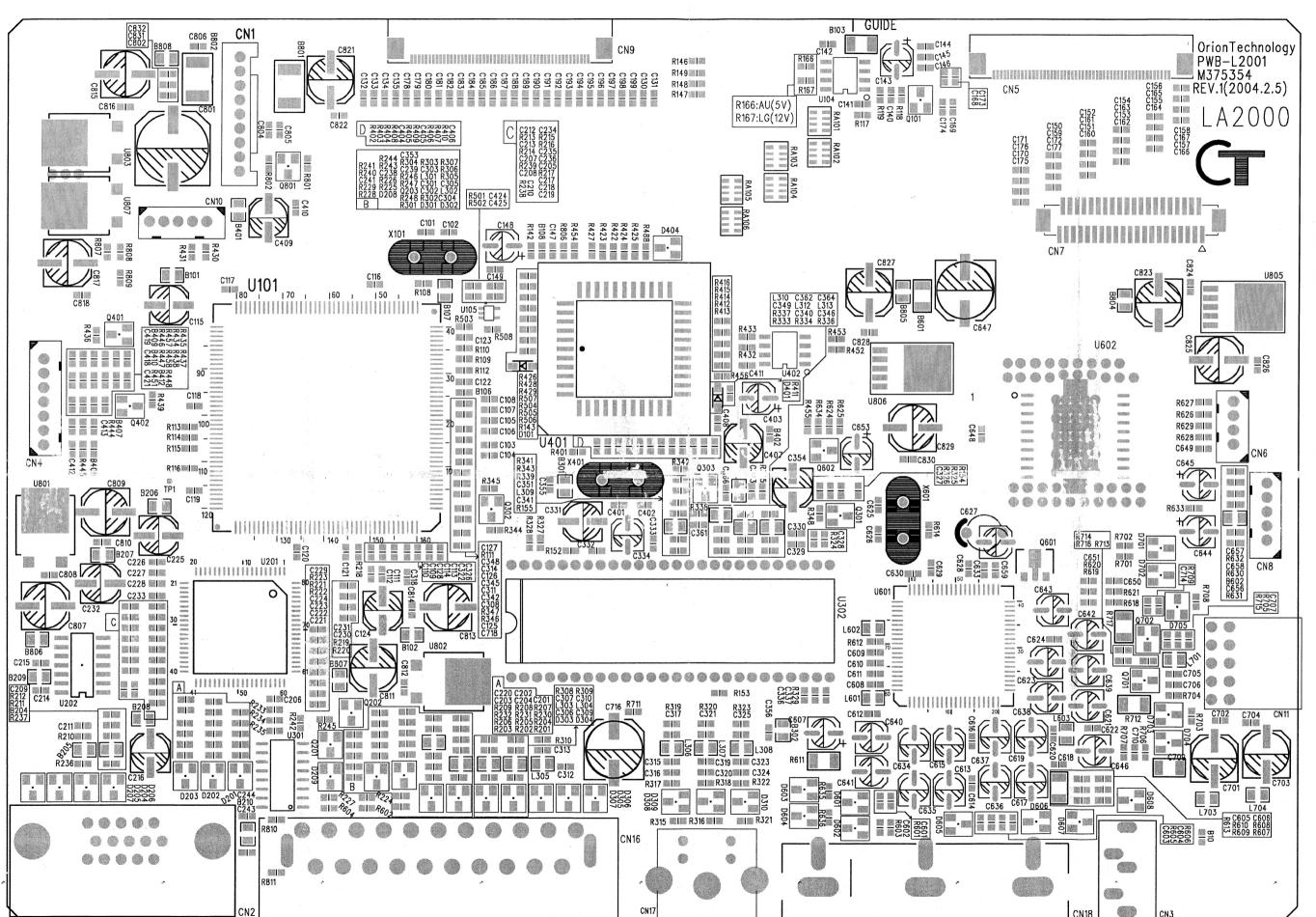
Hauptplatte / Main Board

Ansicht von der Bestückungsseite / View of Component Side



Hauptplatte / Main Board

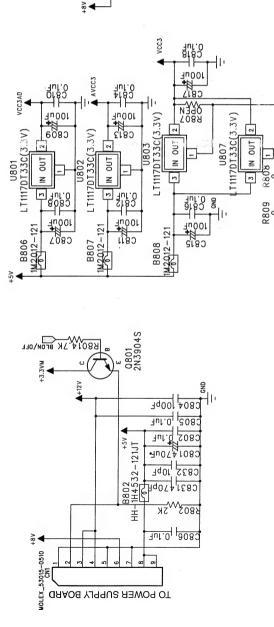
Vergrößerte Ansicht von der Bestückungsseite / Larged view of Compor₊ent Side

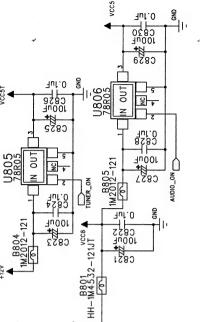


GRUNDIG Service

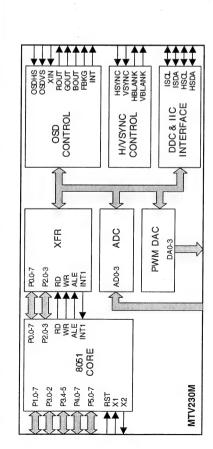
Chassis LA2000

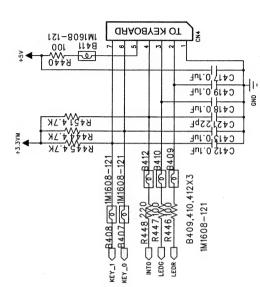
Hauptplatte – Netzteil / Main Board – Power Supply

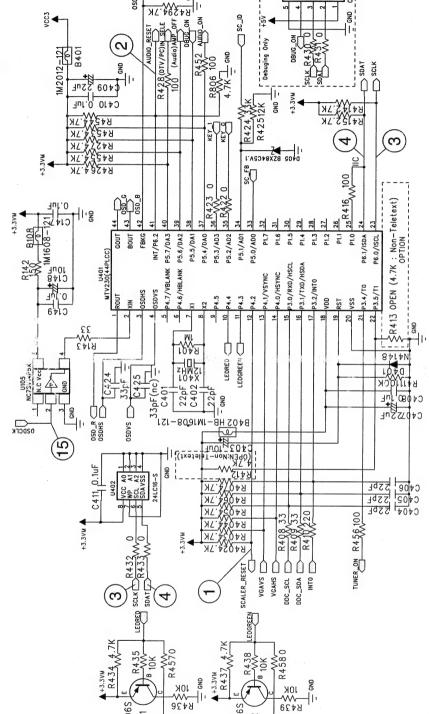


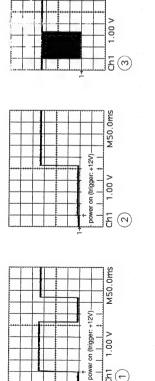


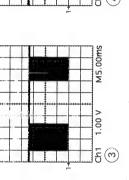


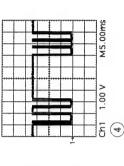


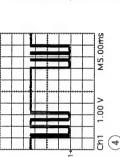


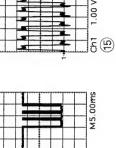






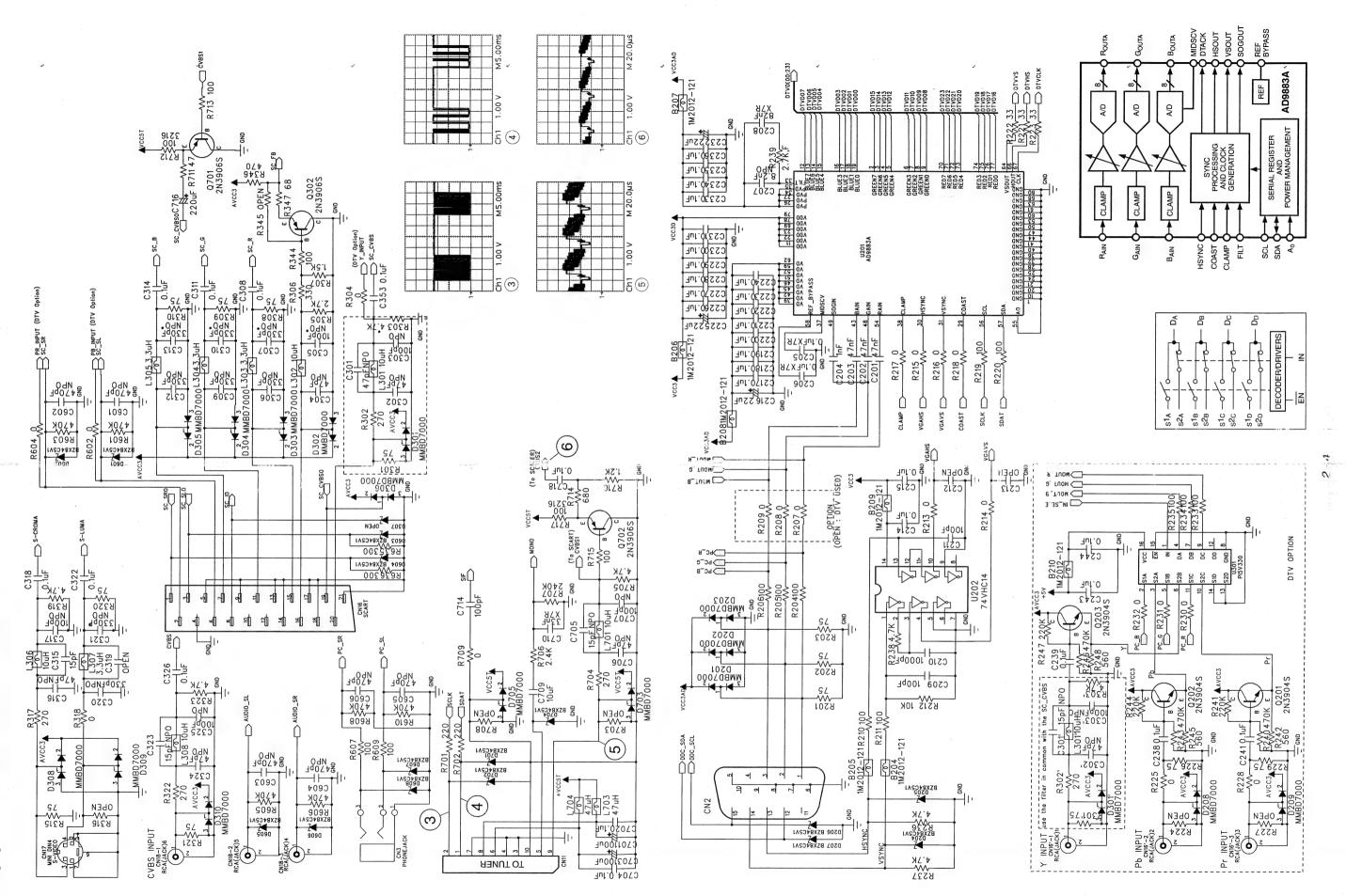




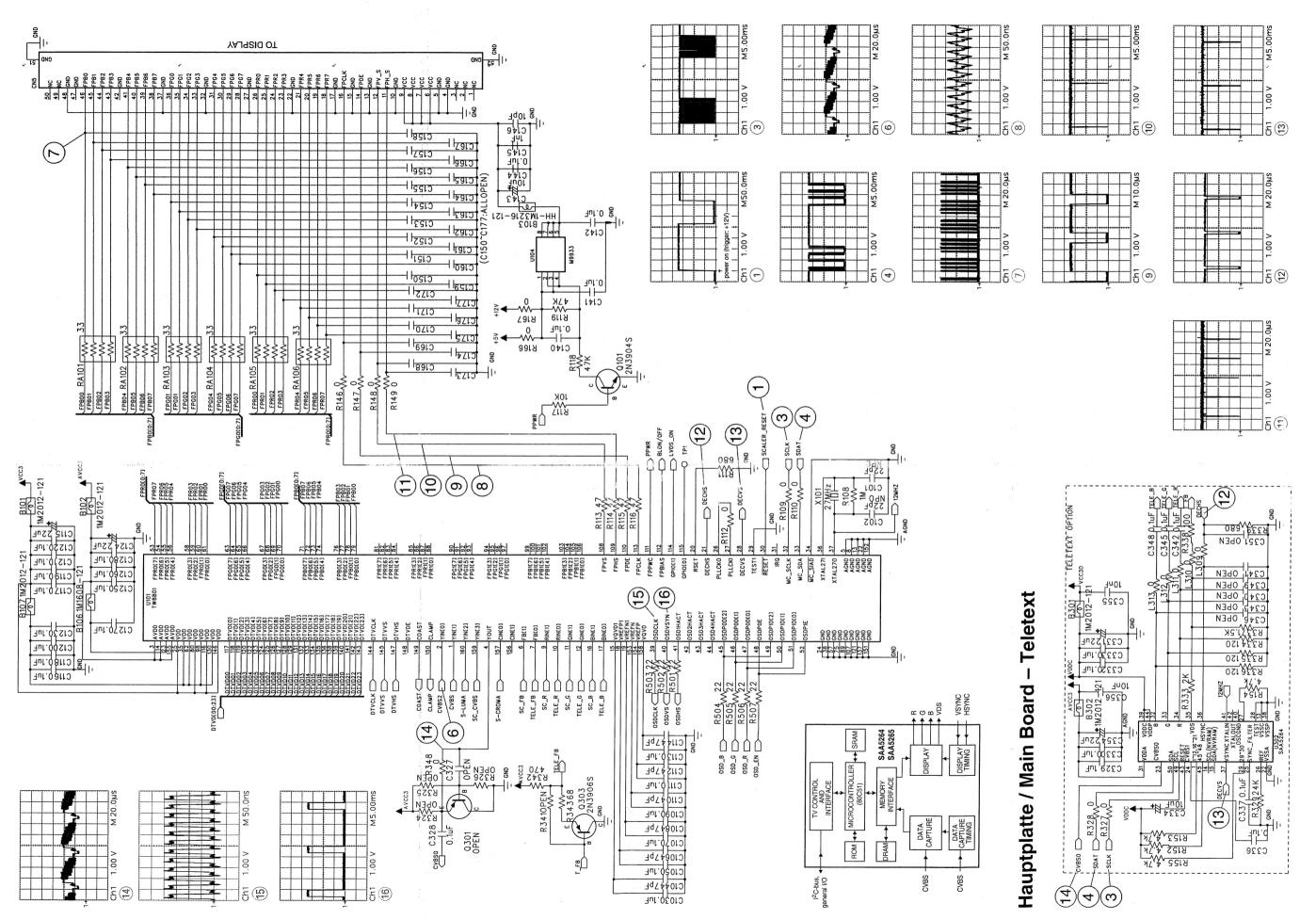


Hauptplatte / Main Board – IN/OUT

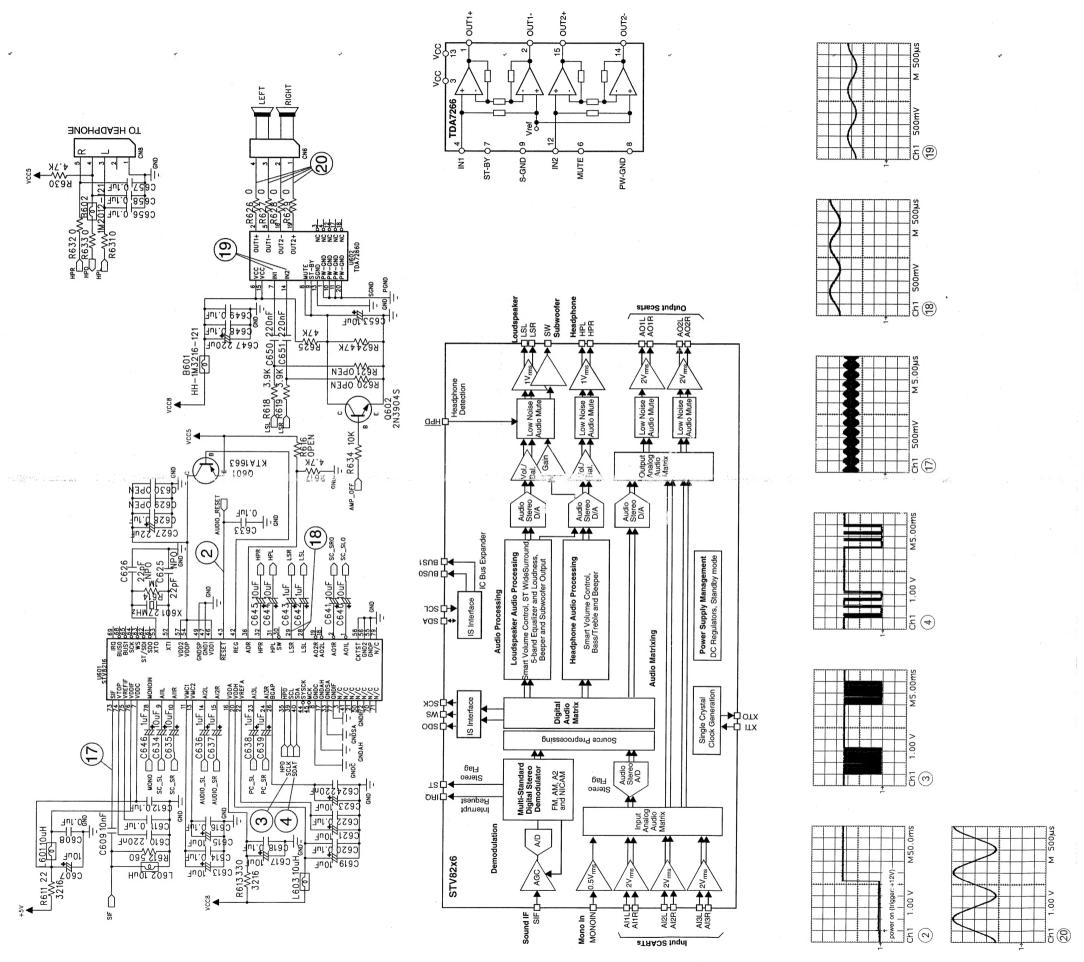
GRUNDIG Service



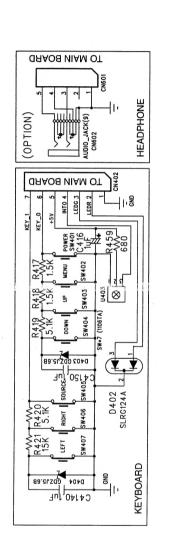
Hauptplatte / Main Board - Scaler



Hauptplatte / Main Board - Audio



Bedieneinheit, Kopfhörerplatte / Keyboard, Headphone Board



GRUNDIG

Ersatzteilliste Spare Parts List

NUR FÜR INTERNEN GEBRAUCH FOR INTERNAL USE ONLY



4 / 2005

20 LCD 51-7401 TOP

MATERIAL-NR. / PART NO.: 720126012400 BESTELL-NR. / ORDER NO.: GBC9500

POS. NR. POS. NO.		MATERIAL-NR. ANZ. PART NUMBER QTY.	BEZEICHNUNG D	DESCRIPTION GB
		720126012400	20 LCD 51-7401 TOP KEIN E-TEIL	20 LCD 51-7401 TOP NO SPARE PART
			KLIN E-ILIL	NO OF AIRE FAIT
0001.000		759551144200	GEHAEUSEVORDERTEIL SILBER	FRONT CABINET SILVER
0002.000		759551144100	RUECKWAND SILBER	BACK COVER SILVER
0003.000		759551144300	DEKO-RAHMEN VORDERTEIL SILBER	DECO FRAME FRONT SILVER
0005.000		759551144400	FUSS SILBER	FOOT SILVER
0007.000		759551146500	LAUTSPRECHER	LOUDSPEAKER
000.8000	\triangle	759551143500	LCD-DISPLAY 20" CHI MEI	LCD-DISPLAY 20" CHI MEI
0019.000		759551146700	TUNER TCPQ9091 PD27D	TUNER TCPQ9091 PD27D
0020.000		720117137100	FERNBEDIENUNG	REMOTE CONTROL
0021.000		759551143900	KABEL BEDIENMODUL	CABLE CONTROLBOARD
0022.000		759551144000	DATENKABEL (Display)	DATA CABLE (Display)
0025.000	\triangle	759551144800	NETZKABEL	POWER CABLE
0030.000		759551143800	LP-HAUPTMODUL	MAINBOARD
0060.000		759551143600	LP-BEDIENMODUL	CONTROLBOARD
0070.000	\triangle	759551146600	LP-NETZTEIL	POWER SUPPLY
0080.000		759551143700	LP-IR-MODUL	IR-BOARD
0090.000		759551144500	POLSTERSET LCD	CUSHION SET LCD
0091.000		759551144600	KARTON	CARTON
0092.000		759551144700	POLSTERSET FUSS	CUSHION SET FOOT
		720117106500	BEDIENUNGSANLEITUNG D/F/I	INSTRUCTION MANUAL D/F/I
		720117106600	BEDIENUNGSANLEITUNG GB/NL/E	INSTRUCTION MANUAL GB/NL/E
		720117106700	BEDIENUNGSANLEITUNG S/DK/N	INSTRUCTION MANUAL S/DK/N
		720100519000	SERVICE MANUAL D/GB	SERVICE MANUAL D/GB

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Mat.-Nummer 720108000001, sowie zusätzlich die eventuell abweichenden, landesspezifischen Vorschriften!





The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 7201080000001, as well as the respective national deviations.

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Ersatzteilliste Spare Parts List

NUR FÜR INTERNEN GEBRAUCH FOR INTERNAL USE ONLY

6 / 2005

20 LCD 51-7402 TOP

MATERIAL-NR. / PART NO.: 720126015600 BESTELL-NR. / ORDER NO.: GBD5200

POS. NR. ABB. POS. NO. FIG.	MATERIAL-NR. ANZ. PART NUMBER QTY.	BEZEICHNUNG D	DESCRIPTION GB
	720126015600	20 LCD 51-7402 TOP KEIN E-TEIL	20 LCD 51-7402 TOP NO SPARE PART
0001.000 0002.000 0003.000 0005.000 0007.000 0008.000 0019.000 0020.000 0021.000 0022.000 0025.000 0030.000 0060.000 0070.000 0090.000 0091.000	759551144200 759551167300 759551167400 759551167400 759551146500 759551146500 759551146700 720117137100 759551143900 759551144800 759551144800 759551143600 759551143600 759551144600 759551144500 759551144500	GEHAEUSEVORDERTEIL SILBER RUECKWAND SILBER DEKO-RAHMEN VORDERTEIL SILBER FUSS SILBER LAUTSPRECHER LCD-DISPLAY 20" CHI MEI TUNER TCPQ9091 PD27D FERNBEDIENUNG KABEL BEDIENMODUL DATENKABEL (Display) NETZKABEL LP-HAUPTMODUL LP-BEDIENMODUL LP-BEDIENMODUL LP-NETZTEIL LP-IR-MODUL POLSTERSET LCD KARTON	FRONT CABINET SILVER BACK COVER SILVER DECO FRAME FRONT SILVER FOOT SILVER LOUDSPEAKER LCD-DISPLAY 20" CHI MEI TUNER TCPQ9091 PD27D REMOTE CONTROL CABLE CONTROLBOARD DATA CABLE (Display) POWER CABLE MAINBOARD CONTROLBOARD POWER SUPPLY IR-BOARD CUSHION SET LCD CARTON
0092.000	759551144700 720117106500 720117106600 720117106700 720100519000	POLSTERSET FUSS BEDIENUNGSANLEITUNG D/F/I BEDIENUNGSANLEITUNG GB/NL/E BEDIENUNGSANLEITUNG S/DK/N SERVICE MANUAL D/GB	CUSHION SET FOOT INSTRUCTION MANUAL D/F/I INSTRUCTION MANUAL GB/NL/E INSTRUCTION MANUAL S/DK/N SERVICE MANUAL D/GB

